

## **Grade 7 Academic Standards**

### **Unit 2 Lesson**

#### **Science**

##### Standard 1 The Nature and Science of Technology

###### Technology and Science

- 7.1.8 Explain that technologies often have drawbacks as well as benefits. Consider a technology, such as the use of pesticides, which helps some organisms but may hurt others, either deliberately or inadvertently.

##### Standard 2 Scientific Thinking

###### Communication Skills

- 7.2.7 Incorporate circle charts, bar and line graphs, diagrams, scatter plots, and symbols into writing, such as lab or research reports, to serve as evidence for claims and/or conclusions.

##### Standard 3 The Physical Setting

###### Matter and Energy

- 7.3.16 Recognize and explain that different ways of obtaining, transforming, and distributing energy have different environmental consequences.

##### Standard 4 The Living Environment

###### Human Identity

- 7.4.14 Explain that the environment may contain dangerous levels of substances that are harmful to human beings. Understand, therefore, that the good health of individuals requires monitoring the soil, air, and water as well as taking steps to keep them safe.

#### **Social Studies**

##### Standard 5 Individuals, Society, and Culture

- 7.5.4 Examine the impact of cultural change brought about by technological inventions and innovations in the past and present.

**Unit 2 - Activities 2, 3, 4, and 5 satisfy the following Indiana academic standards:**

**Science**

- 7.1.2 Explain that what people expect to observe often affects what they actually do observe and provide an example of a solution to this problem.
- 7.1.3 Explain why it is important in science to keep honest, clear, and accurate records.
- 7.1.8 Explain that technologies often have drawbacks as well as benefits. Consider a technology, such as the use of pesticides, which helps some organisms but may hurt others, either deliberately or inadvertently.
- 7.3.16 Recognize and explain that different ways of obtaining, transforming, and distributing energy have different environmental consequences.
- 7.4.14 Explain that the environment may contain dangerous levels of substances that are harmful to human beings. Understand, therefore, that the good health of individuals requires monitoring the soil, air, and water as well as taking steps to keep them safe.
- 7.7.2 Use different models to represent the same thing, noting that the kind of model and its complexity should depend on its purpose.

**Social Studies**

- 7.5.4 Examine the impact of cultural change brought about by technological inventions and innovations in the past and present.